

Technical Page

This proposal has not been submitted before.

Proposal Type: Regular
 General Category: Planetary Radar
 Observation Category: Solar System
 Total Time Requested: 22.3 Hours
 Minimum Useful Time: 3 hours

Proposal Title: Radar Imaging of Mercury During the July 2019 Inferior Conjunction

ABSTRACT:

We propose to conduct dual-polarization radar observations of Mercury during its July 2019 inferior conjunction. The objectives of these observations are: (a) to obtain full disk-integrated dual-polarization radar measurements and (b) high resolution delay-Doppler images of the north polar ice deposits. The same data will also be used to make improved images of equatorial and mid-latitude features such as volcanic deposits, smooth plains, impact craters and ray systems associated with them

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Remote Observing Request

- Observer will travel to AO
- Remote Observing
- In Absentia (instructions to operator)

Instrument Setup

S-Band radar

Atmospheric Observation Instruments:

Special Equipment or setup: none

RFI Considerations

Frequency Ranges Planned